

Zhuo Wang (王焯)

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BIOGRAPHY

I am a fifth-year PhD student (expected to graduate in 2023.06) in the Department of Computer Science and Technology, Tsinghua University. My supervisor is Professor Jianyong Wang. My research interests mainly include interpretable machine learning models and their medical applications.

EDUCATION

Tsinghua University	Beijing
Ph.D. in Computer Science and Technology (Advisor: Jianyong Wang)	2018–Current
University of Electronic Science and Technology of China (UESTC)	Chengdu, Sichuan
B.E. in Software Engineering	2014–2018
– GPA: 3.96 / 4.00, Rank: 1 / 113	

PUBLICATIONS

- **Zhuo Wang**, Wei Zhang, Ning Liu, and Jianyong Wang. “Scalable Rule-Based Representation Learning for Interpretable Classification.” *Advances in Neural Information Processing Systems*, 2021. (**NeurIPS**, Full Paper, CCF-A)
- **Zhuo Wang**, Wei Zhang, Ning Liu, Jianyong Wang. “Transparent Classification with Multilayer Logical Perceptrons and Random Binarization.” *AAAI Conference on Artificial Intelligence*, 2020. (**AAAI**, Full Paper, **Oral Presentation**, CCF-A)
- **Zhuo Wang**, Jie Wang, Ning Liu, Caiyan Liu, Xiuxing Li, Liling Dong, Rui Zhang, Chenhui Mao, Zhichao Duan, Wei Zhang, Jing Gao, Jianyong Wang. “Learning Cognitive-Test-Based Interpretable Rules for Prediction and Early Diagnosis of Dementia using Neural Networks.” *Journal of Alzheimer’s Disease* (2022). (**JAD**, Article)
- Wei Zhang, Junbing Yan, **Zhuo Wang**, and Jianyong Wang. “Neuro-Symbolic Interpretable Collaborative Filtering for Attribute-based Recommendation.” *The Web conference*, 2022. (**WWW**, Full Paper, CCF-A)
- Jie Wang, **Zhuo Wang**, Ning Liu, Caiyan Liu, Chenhui Mao, Liling Dong, Jie Li, Xinying Huang, Dan Lei, Shanshan Chu, Jianyong Wang, and Jing Gao. “Random Forest Model in the Diagnosis of Dementia Patients with Normal Mini-Mental State Examination Scores.” *Journal of Personalized Medicine* 12, no. 1 (2022): 37. (**JPM**, Article)

TEACHING

Teaching Assistant at Tsinghua University Data Mining: Principles and Algorithms (Graduate course)	Autumn 2022, Autumn 2021, Autumn 2020
Guest Lecturer at Tsinghua University Data Mining: Principles and Algorithms (Graduate course)	Autumn 2019

EXPERIENCE

ByteDance Ltd. Algorithm Intern at Data Department	Beijing 2017.02–2017.08
<ul style="list-style-type: none">– Personalized Recommendation and Push Group– Responsible for the personalized notification push of the company’s main product, “Toutiao”. Mainly engaged in optimization and evaluation of user features, push query acceleration, and online data statistics. The inverted index optimization that I was in charge increases the speed of the actual online business by about 10 times.	
National University of Singapore (NUS) Summer Programme	Singapore Summer 2015
<ul style="list-style-type: none">– Computational Thinking: Creative Problem Solving– Grade: A	

SCHOLARSHIPS AND AWARDS

• Overall Excellence Scholarship, Second Prize, Tsinghua University	2021
• Overall Excellence Scholarship, Second Prize, Tsinghua University	2020
• Outstanding Undergraduate, Sichuan Gov.	2018
• Outstanding Undergraduate, UESTC	2017
• National Scholarship, Ministry of Education of China	2016
• National Scholarship, Ministry of Education of China	2015
• Mathematical Contest In Modeling (MCM), Meritorious Winner	2017
• Program Design Competition, Second Prize, UESTC	2016

TEACHING

- English: College English Test Band 6 Certificate (CET-6)
- CCF Certified Software Professional (CSP): 400 (Top 0.46%)